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TITLE : COMPACT OF ACTIVATED CARBON, ITS PRODUCTION AND WATER PURIFIER BY USING THE SAME

ABSTRACT : PROBLEM TO BE SOLVED: To provide a water purifier capable of removing free chlorine, musty smell, trihalomethane and a heavy metal.

SOLUTION: This water purifier is obtained by compacting a mixture of a fibrous activated carbon, titanium dioxide, silicon dioxide and a binder to provide a compact, forming the compact into a cartridge and inserting the cartridge in a housing. The fibrous activated carbon has $\geq 1,300$ m²/g specific surface area, ≥ 0.20 cc/g accumulated pore volume occupied by pores having ≤ 9 \AA radii, and the accumulated pore volume regulated so as to be $\geq 50\%$ of the accumulated pore volume occupied by the pores having ≤ 100 \AA radii.

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